SHUKUR ALAM

CHIEF EXECUTIVE OFFICER

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SUMMARY

Founder and CEO with a strong background in software engineering, AI, and IoT development. Experienced in building early-stage startups, leading product development, and turning ideas into practical, scalable solutions. Skilled in system design, intelligent automation, and applied machine learning, with a focus on creating technology that solves real-world problems. Comfortable working across technical and business roles, from architecture and development to strategy and execution.

WORK EXPERIENCE

Founder & CEO – NECTOR   **March, 2025 – Present**

- Founded and led a technology-driven startup focused on AI, IoT, and smart automation solutions addressing real-world and environmental challenges.
- Oversaw end-to-end product development, from concept validation and system architecture to deployment and iteration.
- Led cross-functional teams in software engineering, embedded systems, and data-driven solutions to deliver scalable products.
- Developed business strategy, pitch materials, and technical documentation for investors, partners, and stakeholders.
- Collaborated with academic, industry, and startup ecosystems to drive innovation and early adoption of solutions.

General Member – DIU DATA SCIENCE CLUB   **July, 2023 – Present**

- Actively engaged in workshops, seminars, and training sessions focused on Python programming, data visualization, and machine learning algorithms.
- Collaborated with peers to solve data-driven problems and participated in university-level hackathons and coding competitions.
- Contributed to the academic community by sharing knowledge and staying updated on the latest trends in AI and data analytics.
- Networked with industry professionals and alumni to bridge the gap between academic theory and real-world application.

EDUCATION

Bachelor of Science in Software Engineering

- Expected Graduation: 2027

Higher Secondary Certificate (HSC) in Science
- Completed: 2022

Secondary School Certificate (SSC) in Science
- Completed: 2020

CERTIFICATIONS

Building LLM Applications with Prompt Engineering | NVIDIA | Jun 2025

TensorFlow 2.0 – Deep Learning and Artificial Intelligence | Udemy | May 2024

Intermediate Machine Learning | Kaggle | Oct 2021

Introduction to Machine Learning | Kaggle | Sep 2021

Python Programming | Kaggle | Sep 2021

Python Programming | Programming Hero | Oct 2020

PROJECTS

EnviroGuard AI | IoT & AI Environmental Monitoring | Feb 2025 – Mar 2025
Developed an AIoT system for real-time monitoring of pH, TDS, and atmospheric data with AI-driven anomaly detection and instant mobile alerts for smart agriculture and industrial use.

CardioCare-AI | IoT-Based Health Analytics | Nov 2024 – Jan 2025
Built an MVP health monitor using IoT sensors to track heart rate and O2 levels, integrated with a predictive AI module for early health risk detection and doctor consultation features.

BusTrax Vision | Intelligent Transportation System | Sep 2024 – Nov 2024
Engineered a comprehensive tracking solution integrating embedded IoT devices with web and mobile platforms to provide real-time vehicle location, speed, and status analytics.

Road Defect Detection Using AIoT | Machine Learning & Sensors | Jul 2024 – Sep 2024
Created a real-time road maintenance system using ESP32 and MPU9250 sensors to detect potholes and defects, logging GPS coordinates to a web dashboard via MQTT protocol.

HONORS & AWARDS

Champion – Patent & Idea Competition 2025
• Issued by Daffodil International University · Nov 2025

Gold Medalist – Innovation World Cup 2026
• Issued by Innovation World Cup · Nov 2025

2nd Runner-Up – Patent & Idea Competition 2024
• Issued by Daffodil International University · Nov 2024

Runner-Up – DIU Idea Contest
• Issued by Department of Software Engineering, DIU · May 2024

4th Place – Datathon Contest
• Issued by DIU Computer & Programming Club · Nov 2023

Second Position – 44th Science Fair
• Issued by Deputy Commissioner, Chandpur · Jun 2023

Champion – "Show Your Project" Contest (2022–2023)
• Issued by Phitron · Feb 2023

2nd Runner-Up – Digital Innovation Fair 2022
• Issued by Chandpur ICT Division · Nov 2022

Champion – Science Fair (Excellence & Innovation)
• Issued by UNO, Hajiganj · Aug 2022